

Product
view

74Karat

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Next tradition in printing.

The

Karat
Digital Press
a Scitex & KBA Joint Venture



Technical Specifications

System Specifications

Paper and Image Formats

Minimum sheet size: W: 297 mm / 11.7 in. L: 210 mm / 8.2 in.
 Maximum sheet size: W: 740 mm / 29.1 in. L: 520 mm / 20.5 in.
 Maximum image area: W: 720 mm / 28.3 in. L: 510 mm / 20 in.
 Stock thickness: 0.06 - 0.3 mm / 2-12 pt
 Stock weight: 60 - 350 gsm / 16# bond - 160# bristol

Maximum Speed 10,000 sph

Plate Material

Presstek PEARLdry™ aluminum plates
 20 plates in a cassette (sufficient for 10 jobs)

Ink

Optimized waterless inks. Packed in an ink cartridge: 2 kg / 4.5 lb

Press Measurements

(excluding operator terminal, and air and vacuum cabinets)
 L x W x H: 3,880 x 2,100 x 2,145 mm / 153 x 87 x 85 in.
 Weight: 12,000 kg / 26,460 lb

Maximum Pile Height

Feeder: 600 mm / 23.62 in.
 Delivery: 600 mm / 23.62 in.

Power Requirements

65 kVA

Imaging Parameters

Resolution: variable imaging
 from 60 - 140 dpm / 1,524 - 3,556 dpi
 Diodes: 40 per imaging head
 Minimum dot size: 10 microns

Recommended Operating Environment

Temperature: 18 - 25°C / 64.5 - 77°F
 Relative humidity: approximately 60%

Typical System Configuration

RIP: Brisque™
 Digital proofer: Iris®

Karat Digital Press

Karat Digital Press is ushering in a new era of digitally integrated offset printing with its 74 Karat press, which delivers cost-effective offset quality through innovative design. The offspring of two industry leaders – press manufacturer KBA, and prepress pioneer Scitex Corporation – Karat Digital Press, from its foundation, drew on the collective experience of both parent companies but functions today on the basis of the expertise of its own diversified team of professionals. By drawing on this aggregate knowledge and its creative spirit, the company intends to continue offering innovative enhancements and new products that will maximize the productivity and the profits of forward-thinking printers.

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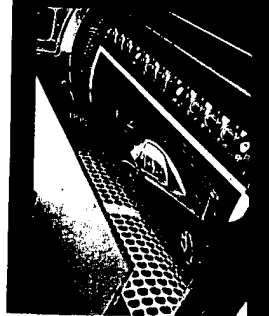
Printed on the
74Karat

Karat Digital Press Ltd.
 P.O. Box 800
 46103 Herzlia B
 Israel
 Tel: +972 9 952-7100
 Fax: +972 9 959-7810

Karat Digital Press GmbH
 Immedrich-Lise-Strasse 2
 D-01445 Radebeul
 Germany
 Tel: +49 351 833-2900
 Fax: +49 351 833-2990

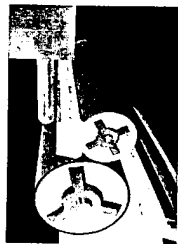
Karat North America
 Bright Oak Park Drive
 Bedford, MA 01730
 USA
 Tel: +1 781 280-7529
 Fax: +1 781 275-3430

Karat Europe
 contact us at
 info@karatpress.com
 or visit our Web site at
 www.karatpress.com



A revolution in offset press engineering and design, the digitally integrated 74 Karat press meets the industry's continually-growing demand for short and medium runs, delivering truly cost-effective, four-color offset quality printing. It provides predictable, high-quality output through an abundance of automated features, including direct-to-plate imaging and a revolutionary self-calibrating inking system. More than any other printing press on the market, the versatile 74 Karat press increases your productivity and the profitability of your commercial-quality printing jobs in the 1,000 to 10,000 range.

The 74 Karat press was the outcome of the conviction that printing must evolve from a skill-based process to true computer-integrated manufacturing. Therefore, the press is driven by a fully digital workflow that enables you to proceed from file directly to print, as production parameters are taken into account when optimizing files for printing. Minimal operator intervention is required due to a cleverly streamlined design, which also offers easy on-screen access and control at every stage of the process. An automated 20-minute makeready virtually eliminates start-up paper waste and contributes to a fast turnaround. The 74 Karat press has a printing format of up to four full-bleed pages, runs at a maximum speed of 10,000 sheets per hour and prints on a standard range of offset printing stocks.



Automatic ink roller
ensures even ink
distribution

get an even supply of ink before each impression, so that there is no mechanical ink ghosting, regardless of image or coverage. For the first time in sheet-fed offset presses, ink coverage on the sheet

Every feature a g m Automatic Makeready

The 74 Karat press boasts a fully automated makeready cycle. A mere 20 minutes separate the last salable sheet of one job and the first salable sheet of the next. Plates are automatically changed, imaged and cleaned while the press parameters for the new job are set. Perfect register and full, proof-



matching color are achieved without any operator intervention within a few sheets of starting the run; the press can reach full running speed within 100 sheets. The automatic makeready consistently limits the margin for human error, ensuring a smooth, cost-effective transition from job to job.

The Gravuflex™ Inking System

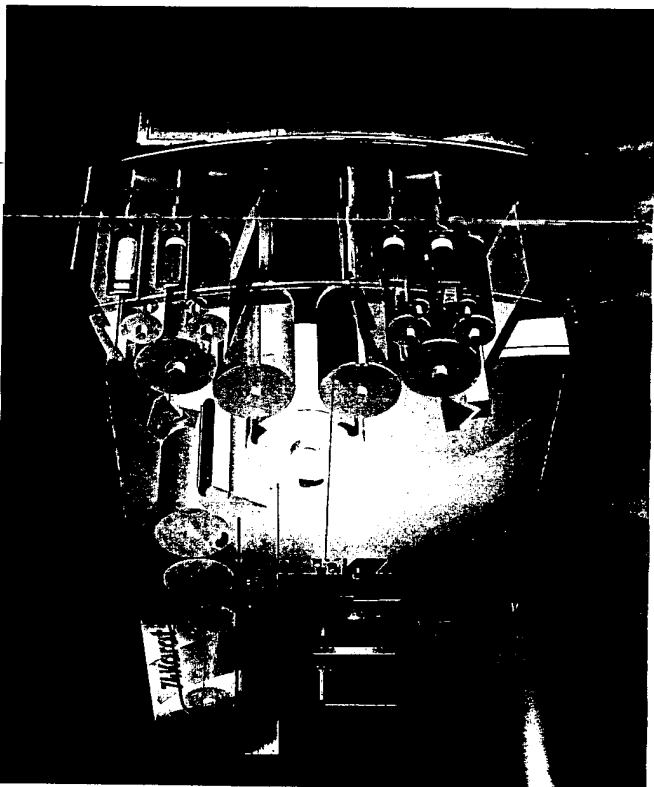
The 74 Karat press features a keyless, self-calibrating inking system that is central to enabling highly predictable and consistent results. The Gravuflex inking system fundamentally changes the traditional steps of the makeready process: it is designed to eliminate operator intervention, and place the responsibility for color management on the prepress department. The configuration of the press and inking system guarantee that the plates

Noteworthy Features

- High-resolution imaging directly to plate is accomplished with a multi-beam laser head system that can image all four plates on press in just six minutes.
- A single impression cylinder completes printing in just two passes without transferring the sheet, thus achieving perfect register.
- Independent temperature controls for each Gravuflex roller and plate cylinder contribute to consistent, predictable and high quality results.
- Integration with a range of prepress workflows – with both Scitex Brisque and third party RIPs – is easily achieved.
- Replaceable ink cartridges and plate cassettes are changed quickly and easily while the press is running.
- The compact size of the 74 Karat press saves considerably on floor space.

Waterless and Green

The 74 Karat press employs waterless printing to eliminate the complicated ink-water balance of traditional offset. By excluding this unstable variable, the press achieves a greater measure of makeready predictability, requires less operator intervention and skill, and reduces the environmental costs of the printing process. The 74 Karat further contributes to environmental preservation by using plates that require no chemical processing and by the absolutely minimal amount of paper waste.



Ink cartridges and plate cassettes are changed while the press is running



Automatic plate cleaning system